



Tropical Depression THREE QuickLook
Posted: 12:00 EDT 07/22/2010

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 07/22/2010 12:00 EDT, water levels across southern Florida are at or near predicted. Wind speeds range from 5 to 15 kts with some gusts up to 20 kts. Barometric pressure is steady across the region.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Trident Pier, FL Next predicted high tides are 3.95 ft (1.20 m) at 07/22/2010 18:18 CDT and 2.80 ft (0.85 m) at 07/23/2010 06:21 CDT.

Virginia Key, FL Next predicted high tides are 2.03 ft (0.62 m) at 07/22/2010 19:26 CDT and 1.95 ft (0.59 m) at 07/23/2010 07:33 CDT.

Vaca Key, FL Next predicted high tides are 0.85 ft (0.26 m) at 07/23/2010 11:01 CDT and 0.89 ft (0.27 m) at 07/24/2010 12:18 CDT.

Key West, FL Next predicted high tides are 0.88 ft (0.27 m) at 07/22/2010 21:36 CDT and 1.93 ft (0.59 m) at 07/23/2010 08:34 CDT.

Naples, FL Next predicted high tides are 2.20 ft (0.67 m) at 07/23/2010 01:09 CDT and 3.17 ft (0.97 m) at 07/23/2010 10:54 CDT.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For more information or archived products and reports, please see the [Storm QuickLook](#) Homepage.

Analyst:PFF

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

**TROPICAL DEPRESSION THREE ADVISORY NUMBER 1
1100 AM EDT THU JUL 22 2010**

**...TROPICAL DEPRESSION FORMS IN THE BAHAMAS...AIR FORCE RECONNAISSANCE
PLANE EN ROUTE...**

WATCHES AND WARNINGS

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A TROPICAL STORM WARNING IS IN EFFECT FOR...

*** FOR THE FLORIDA EAST COAST FROM GOLDEN BEACH SOUTHWARD INCLUDING THE
ENTIRE FLORIDA KEYS AND FLORIDA BAY...AND ALONG THE WEST COAST OF FLORIDA
NORTHWARD TO BONITA BEACH**

A TROPICAL STORM WATCH IS IN EFFECT FOR...

*** THE EAST COAST OF FLORIDA NORTH OF GOLDEN BEACH TO JUPITER INLET
INCLUDING LAKE OKEECHOBEE**

**A TROPICAL STORM WARNING MEANS THAT TROPICAL STORM CONDITIONS ARE
EXPECTED SOMEWHERE WITHIN THE WARNING AREA WITHIN 36 HOURS.**

**A TROPICAL STORM WATCH MEANS THAT TROPICAL STORM CONDITIONS ARE
POSSIBLE WITHIN THE WATCH AREA...GENERALLY WITHIN 48 HOURS.**

**FOR STORM INFORMATION SPECIFIC TO YOUR AREA IN THE UNITED
STATES...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR
PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE.
FOR STORM INFORMATION SPECIFIC TO YOUR AREA OUTSIDE UNITED STATES...PLEASE
MONITOR PRODUCTS ISSUED BY YOUR NATIONAL METEOROLOGICAL SERVICE.**

DISCUSSION AND 48-HOUR OUTLOOK

AT 1100 AM EDT THE CENTER OF NEWLY FORMED TROPICAL DEPRESSION THREE WAS LOCATED ABOUT 405 MI ESE OF KEY LARGO FLORIDA. THE DEPRESSION IS MOVING TOWARD THE WEST-NORTHWEST NEAR 15 MPH. THIS GENERAL MOTION WITH AN INCREASE IN FORWARD SPEED IS EXPECTED DURING THE NEXT 48 HOURS.

MAXIMUM SUSTAINED WINDS ARE NEAR 35 MPH WITH HIGHER GUSTS. THE DEPRESSION COULD BECOME A TROPICAL STORM LATER TODAY.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 1008 MB...29.77 INCHES.

HAZARDS AFFECTING LAND

WIND...WEATHER CONDITIONS WILL BEGIN TO DETERIORATE ON THE FLORIDA COAST AND FLORIDA KEYS WITHIN THE WARNING AREA ON FRIDAY.

RAINFALL...THE DEPRESSION IS EXPECTED TO PRODUCE TOTAL RAIN ACCUMULATIONS OF 2 TO 4 INCHES OVER SOUTH FLORIDA...WITH POSSIBLE ISOLATED MAXIMUM AMOUNTS OF 5 TO 6 INCHES.

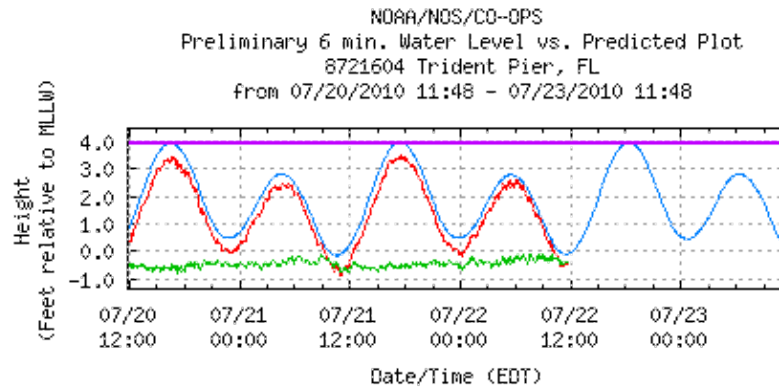
STORM SURGE...STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 1 TO 2 FEET ABOVE GROUND LEVEL OVER THE FLORIDA KEYS.

FORECASTER AVILA/ROBERTS

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Trident Pier - Water Level](#), [Trident Pier - Winds](#), [Trident Pier - Barometric](#), [Trident Pier - Air/Water Temp](#), [Virginia Key - Water Level](#), [Virginia Key - Winds](#), [Virginia Key - Barometric](#), [Virginia Key - Air/Water Temp](#), [Vaca Key - Water Level](#), [Vaca Key - Winds](#), [Vaca Key - Barometric](#), [Vaca Key - Air/Water Temp](#), [Key West - Water Level](#), [Key West - Barometric](#), [Naples - Water Level](#), [Naples - Winds](#), [Naples - Barometric](#), [Naples - Air/Water Temp](#),

Trident Pier, FL - [Return to List](#)

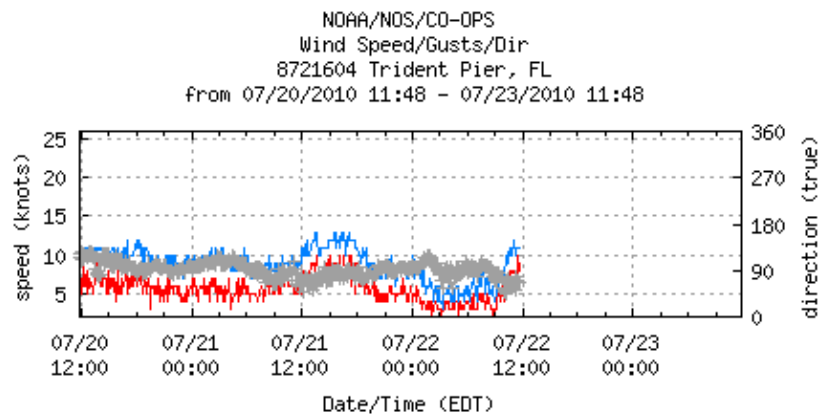


Last Observed Sample: 07/22/2010 11:36 (EDT)

Relative to **MLLW**: **Observed: -0.47 ft. Predicted: -0.09 ft. Residual: -0.38 ft.**

Historical Maximum Water Level: Sep 26 2004, 4.13 ft. above **MHHW**

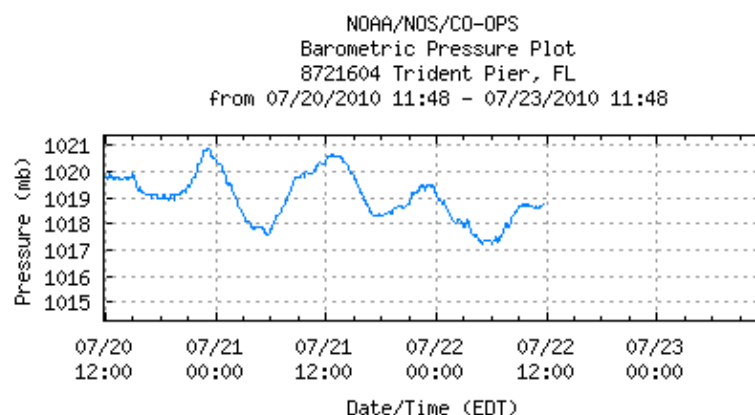
Trident Pier, FL - [Return to List](#)



Last Observed Sample: 07/22/2010 11:36 (EDT)

Wind Speed: 8 knots Gusts: 11 knots Direction: 068° T

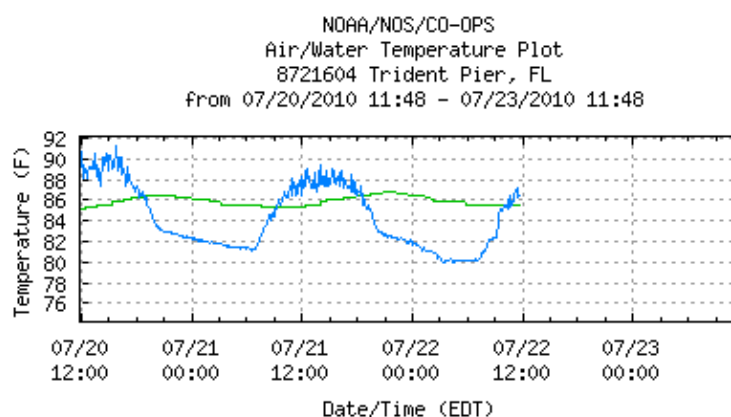
Trident Pier, FL - [Return to List](#)



Last Observed Sample: 07/22/2010 11:36 (EDT)

Barometric Pressure: 1018.8 mb

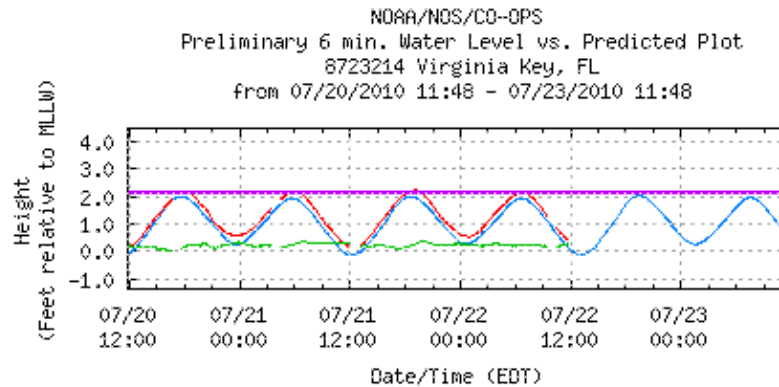
Trident Pier, FL - [Return to List](#)



Last Observed Sample: 07/22/2010 11:36 (EDT)

Water Temperature: 85.5° F Air Temperature: 86.4° F

Virginia Key, FL - [Return to List](#)

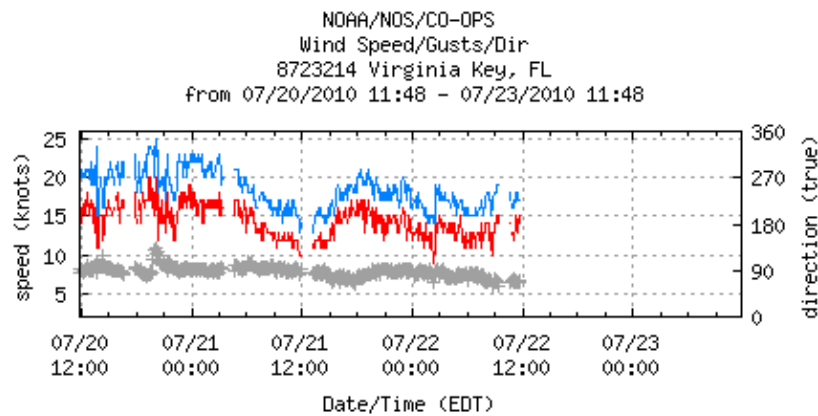


Last Observed Sample: 07/22/2010 11:42 (EDT)

Relative to **MLLW**: **Observed: 0.42 ft. Predicted: 0.15 ft. Residual: 0.27 ft.**

Historical Maximum Water Level: Oct 24 2005, 2.58 ft. above **MHHW**

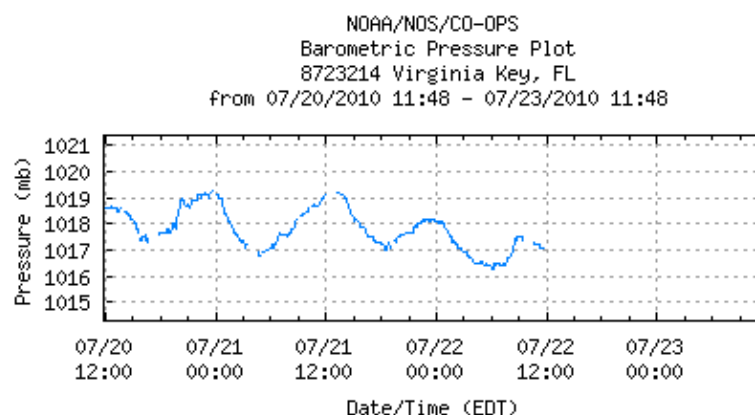
Virginia Key, FL - [Return to List](#)



Last Observed Sample: 07/22/2010 11:42 (EDT)

Wind Speed: 14 knots Gusts: 17 knots Direction: 067° T

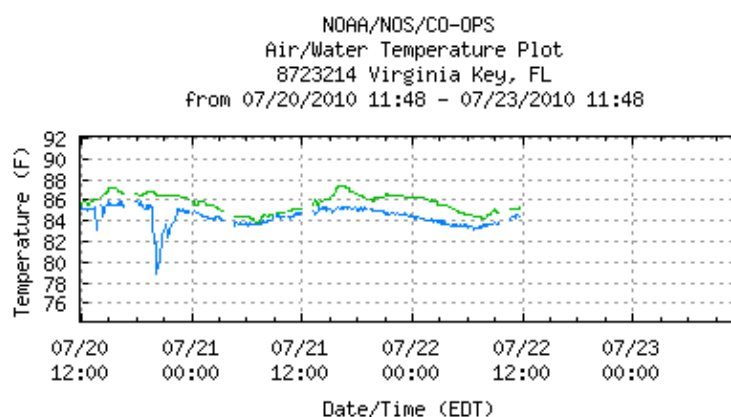
Virginia Key, FL - [Return to List](#)



Last Observed Sample: 07/22/2010 11:42 (EDT)

Barometric Pressure: 1017.1 mb

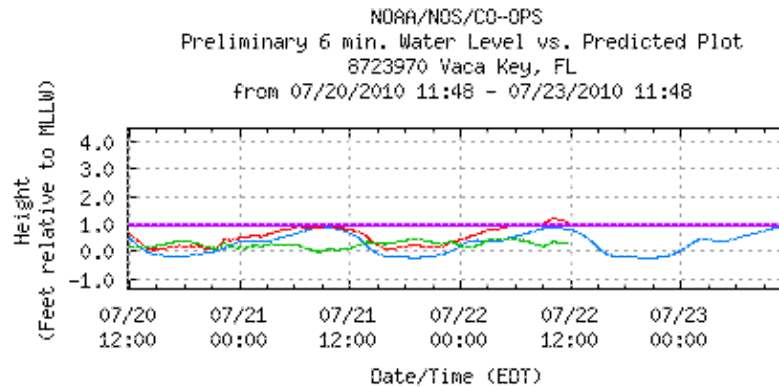
Virginia Key, FL - [Return to List](#)



Last Observed Sample: 07/22/2010 11:42 (EDT)

Water Temperature: 85.3° F Air Temperature: 84.4° F

Vaca Key, FL - [Return to List](#)

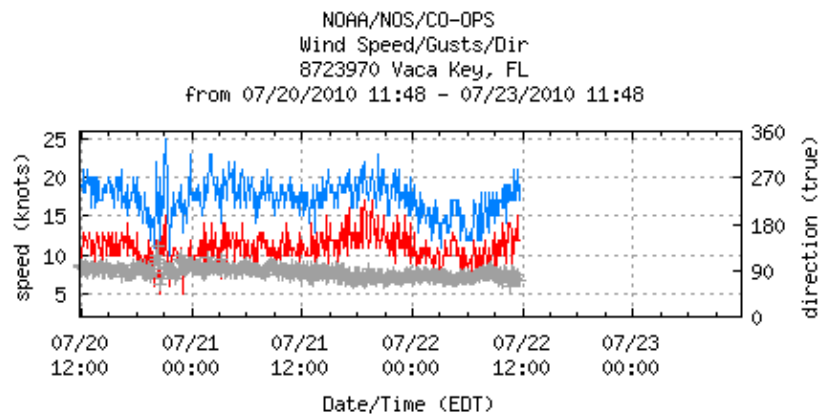


Last Observed Sample: 07/22/2010 11:36 (EDT)

Relative to **MLLW**: **Observed: 1.10 ft.** **Predicted: 0.80 ft.** **Residual: 0.30 ft.**

Historical Maximum Water Level: Oct 7 1974, 1.42 ft. above **MHHW**

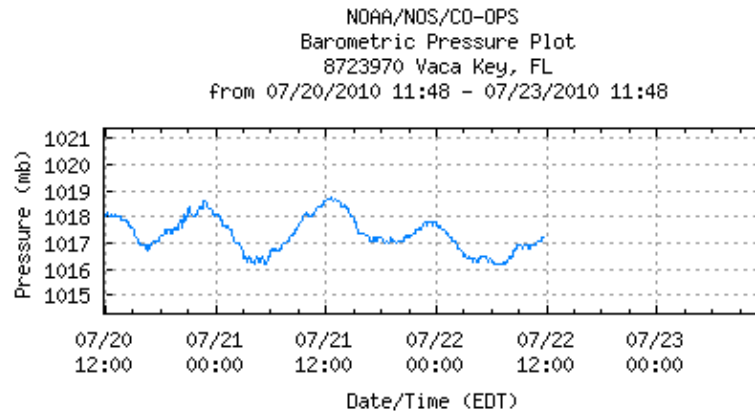
Vaca Key, FL - [Return to List](#)



Last Observed Sample: 07/22/2010 11:36 (EDT)

Wind Speed: 12 knots **Gusts: 17 knots** **Direction: 071° T**

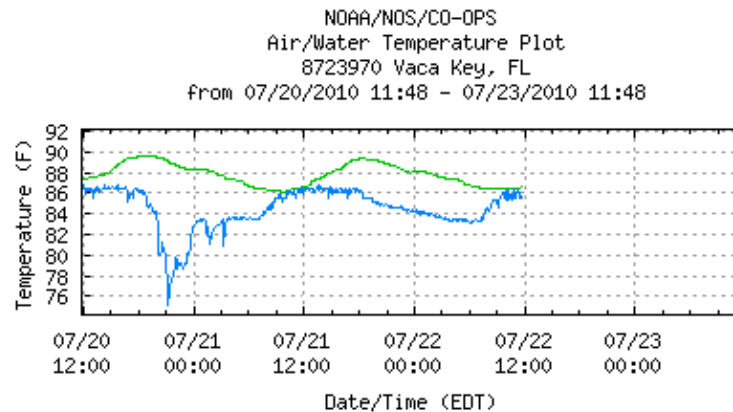
Vaca Key, FL - [Return to List](#)



Last Observed Sample: 07/22/2010 11:36 (EDT)

Barometric Pressure: 1017.2 mb

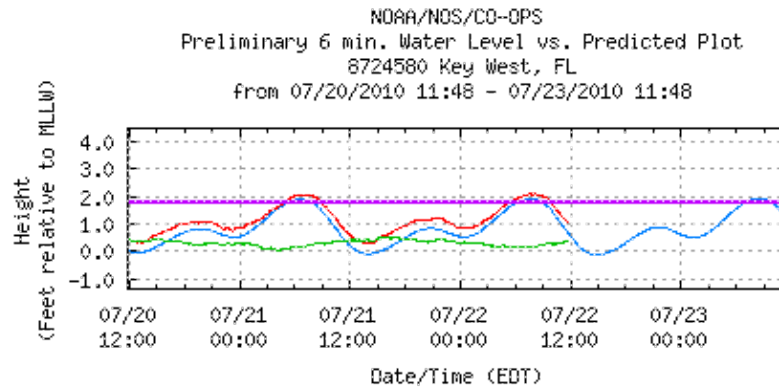
Vaca Key, FL - [Return to List](#)



Last Observed Sample: 07/22/2010 11:36 (EDT)

Water Temperature: 86.7° F Air Temperature: 85.6° F

Key West, FL - [Return to List](#)



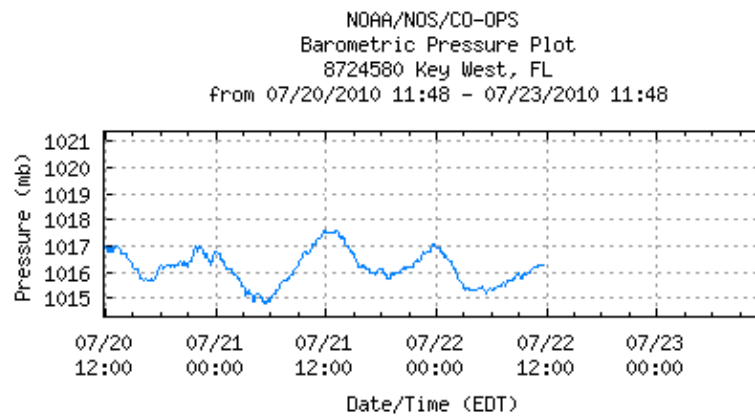
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 07/22/2010 11:36 (EDT)

Relative to **MLLW**: **Observed: 1.08 ft.** **Predicted: 0.72 ft.** **Residual: 0.36 ft.**

Historical Maximum Water Level: Sep 8 1965, 1.93 ft. above **MHHW**

Key West, FL - [Return to List](#)

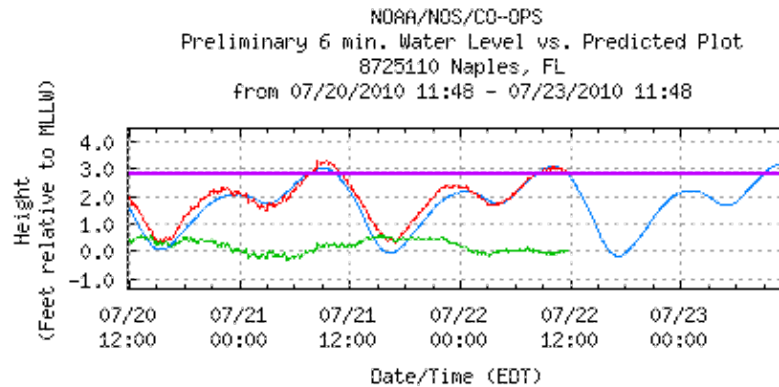


barometric pressure —

Last Observed Sample: 07/22/2010 11:36 (EDT)

Barometric Pressure: 1016.3 mb

Naples, FL - [Return to List](#)

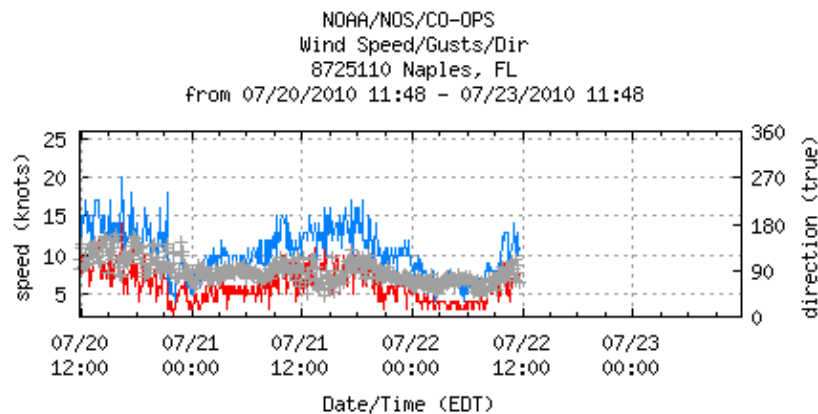


Last Observed Sample: 07/22/2010 11:36 (EDT)

Relative to **MLLW**: **Observed: 2.85 ft. Predicted: 2.81 ft. Residual: 0.04 ft.**

Historical Maximum Water Level: Dec 21 1972, 3.11 ft. above **MHHW**

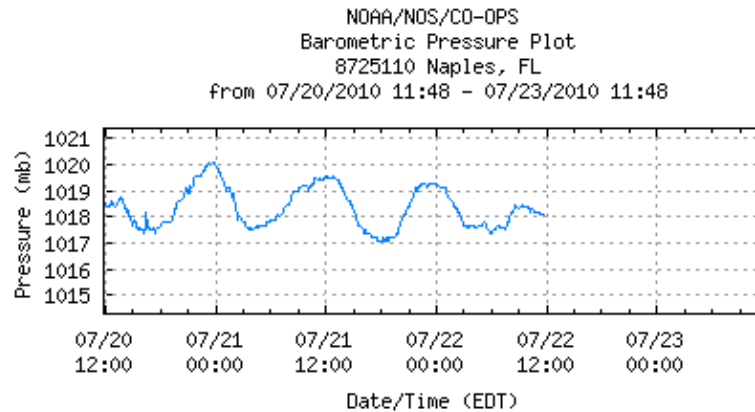
Naples, FL - [Return to List](#)



Last Observed Sample: 07/22/2010 11:36 (EDT)

Wind Speed: 7 knots Gusts: 11 knots Direction: 067° T

Naples, FL - [Return to List](#)

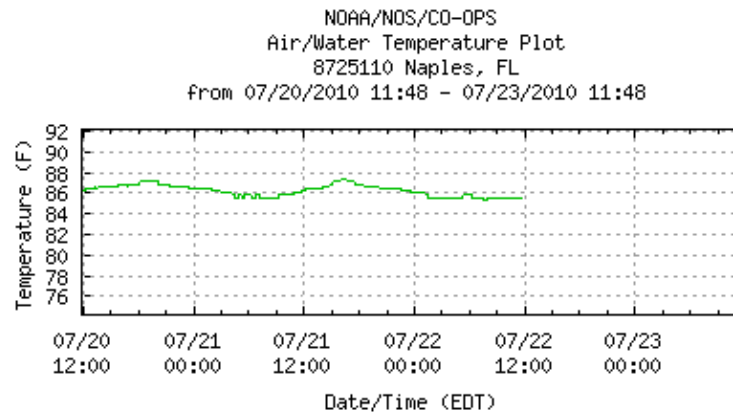


barometric pressure —

Last Observed Sample: 07/22/2010 11:36 (EDT)

Barometric Pressure: 1018.1 mb

Naples, FL - [Return to List](#)



water temp. — air temp —

Last Observed Sample: 07/20/2010 11:48 (EDT)

Water Temperature: 86.2° F Air Temperature: n/a

Tropical Depression THREE QuickLook, POSTED 12:00 EDT 07/22/2010

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce